

## PATENT COOPERATION TREAT

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12367500	FOR FURTHER ACTION		ansmittal of International Search Report as well as, where applicable, item 5 below.					
International application No.	International filing date (	'day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/AU2003/001497	13 November 2003		13 November 2002					
Applicant  MONOQUANT PTY LTD et	al		-					
This international search report has been prep Article 18. A copy is being transmitted to the		Searching Authority and	is transmitted to the applicant according to					
This international search report consists of a	total of 4 sheets.							
X It is also accompanied by a cop	y of each prior art documer	nt cited in this report.						
Basis of the report								
which it was filed, unless other	wise indicated under this it	em	of the international application in the language in					
the international search w (Rule 23.1(b)).	as carried out on the basis	of a translation of the in	ternational application furnished to this Authority					
	b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
contained in the internation	onal application in written t	form.						
filed together with the int	ernational application in co	omputer readable form.	*					
furnished subsequently to	this Authority in written for	orm.						
furnished subsequently to	this Authority in computer	r readable form.						
the statement that the sub application as filed has be		sequence listing does n	ot go beyond the disclosure in the international					
the statement that the info	ormation recorded in comp	uter readable form is ide	ntical to the written sequence listing has been					
2. Certain claims were found un								
3. Unity of invention is lacking (See Box II).								
4. With regard to the title,	the text is approved as su	bmitted by the applican	t.					
	the text has been establis	hed by this Authority to	read as follows:					
5. With regard to the abstract,	the text is approved as su	ibmitted by the applican						
		n one month from the d	38.2(b), by this Authority as it appears in Box III. ate of mailing of this international search report,					
6. The figure of the drawings to be pub	lished with the abstract is I	Figure No.						
	as suggested by the appli	icant.	X None of the figures					
	because the applicant fai	led to suggest a figure						
	because this figure better	r characterizes the inven	tion					



International application No.

PCT/AU2003/001497

#### A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C12N 005/00, 005/06, 005/08

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

DOCUMENTS CONSIDERED TO BE RELEVANT

Electronic Databases - See below

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic Databases - See below

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIDS & CHEMICAL ABSTRACTS Keywords used - clone, clonal, polymorphism, lymphocyte, T cell, B cell, neoplasm, leukaemia, leukaemia, cancer, carcinoma, tumor, tumour, myelodysplasia, polycythaemia, polycythemia, myeloproliferative, microsatellite, mitochondria, electrophoresis, mass spectrometry, hplc, high performance liquid chromatography

CHEMICAL ABSTRACTS Keywords used - clonal & polymorphism (indexing terms), lymphocyte, T cell, B cell, neoplasm, leukaemia, cancer, carcinoma, tumor, tumour, electrophoresis, mass spectrometry

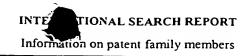
Category*	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.
X	SANCHEZ-CESPEDES et al. Identification Major Target for Mitochondrial DNA Alte Cancer Research. October 2001, vol. 61, pa	ratio	ns in Human Tumors.	1-5, 8, 9, 11-20, 23, 24, 26-31
Y	See whole document			1, 6, 7, 12-14, 15, 16, 21, 22, 26-29
Х	STERNLICHT et al. A Novel Strategy For Precancerous Disease States And Early Sta Biochemical and Biophysical Research Co.	ges	Of Tumor Progression.	1-5, 8, 9, 11, 15-20, 23-24, 26, 30-31
<b>Y</b> .	no. 2, pages 511-518 See whole document		, , , , , , , , , , , , , , , , , , ,	1, 6, 7, 10, 12-14, 15, 16, 21, 22, 26-29
X	Further documents are listed in the continua	tion	of Box C X See patent fam	ily annex
"A" docur which relevance after "L" docur claim public reaso "O" docur exhib	r application or patent but published on or "X" the international filing date  ment which may throw doubts on priority (s) or which is cited to establish the cation date of another citation or other special (as specified) ment referring to an oral disclosure, use, ition or other means ment published prior to the international filing but later than the priority date claimed	and or do con wh do con with a p	er document published after the international d not in conflict with the application but cited theory underlying the invention cument of particular relevance; the claimed insidered novel or cannot be considered to intended the document is taken alone cument of particular relevance; the claimed insidered to involve an inventive step when the one or more other such documents, such coverson skilled in the art cument member of the same patent family	to understand the principle envention cannot be volve an inventive step envention cannot be document is combined
Date of the act	ctual completion of the international search 2004		Date of mailing of the international search	2 8 JAN 2004
Name and ma	ailing address of the ISA/AU		Authorized officer	
PO BOX 200 E-mail addre	NN PATENT OFFICE  ), WODEN ACT 2606, AUSTRALIA ss: pct@ipaustralia.gov.au  (02) 6285 3929		<b>KAREN TAN</b> Telephone No : (02) 6283 2277	·





International application No. PCT/AU2003/001497

	•	C17A02003/001497
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
. X	THUNBERG et al. Comparative Analysis of Detection Systems for Evaluation PCR Amplified Immunoglobulin Heavy-Chain Gene Rearrangements.  Diagnostic Molecular Pathology. 1997, vol. 6 no. 3, pages 140-146	on of 1-5, 8, 9, 11, 15-20, 23-24, 26, 30-31
Υ .	See whole document	1, 6, 7, 10, 12-14, 15, 16, 21, 22, 26-29
X	LUTHRA et al. The Application of Fluorescence-Based PCR and PCR-SSCP Monitor the Clonal Relationship of Cells Bearing the t(14;18)(q32;q21) in Sequential Biopsy Specimens from Patients with Follicle Center Cell Lymph	23-24, 26, 30-31
Y	Diagnostic Molecular Pathology. 1997, vol. 6 no. 2, pages 71-77 See whole document	1, 6, 7, 10, 12-14, 15, 16, 21, 22, 26-29
Χ .	MCKENNA et al. A Rapid Restriction Fragment Length Polymorphism Polymerase Chain Reaction-Based Diagnostic Method for Identification of T Lymphoproliferative Disorders.	-Cell 1-5, 8, 9, 11, 15-20, 23-24, 26, 30-31
Y	Journal of Surgical Research. 1999, vol. 85, pages 311-316 See whole document	1, 6, 7, 10, 12-14, 15, 16, 21, 22, 26-29
X	KOCH et al. Molecular Detection and Characterization of Clonal Cell Populations in Acute Lymphocytic Leukemia by Analysis of Conformational Polymorphisms of cRNA Molecules of Rearranged T-Cell-Receptor-y and	1-5, 8, 9, 11, 15-20, 23-24, 26, 30-31
Y	Immunoglobulin Heavy-Chain Genes. Leukemia. June 1994, vol. 8 no. 6, pages 946-952 See whole document	1, 6, 7, 10, 12-14, 15, 16, 21, 22, 26-29
X	GOMORI et al. Microsatellite Analysis of Primary and Recurrent Glial Tumo Suggests Different Modalities of Clonal Evolution of Tumor Cells.  Journal of Neuropathology and Experimental Neurology. May 2002, vol. 61:	23-24, 26, 30-31
Y	pages 396-402 See whole document	1, 6, 7, 10, 12-14, 15 16, 21, 22, 26-29
X	WICKHAM et al. Detection of Clonal T Cell Populations by High Resolution PCR Using Fluorescently Labelled Nucleotides; Evaluation Using Convention LIS-SSCP.	
Y	J Clin Pathol: Mol Pathol. 2000, vol. 53, pages 150-154 See whole document	1, 6, 7, 10, 12-14, 15 16, 21, 22, 26-29
X	AJZENBERG et al. Microsatellite Analysis of <i>Toxoplasma gondii</i> Shows Considerable Polymorphism Structured Into Two Main Clonal Groups.	1, 6, 10, 15, 16,
Y	International Journal for Parasitology. 2002, vol. 32, pages 27-38 See whole document	1, 6, 10, 15, 16,
x	WO 2002/088388 A1 (RUBBEN) 7 November 2002 See whole document	1, 6, 10, 15, 16,
Y X	US 2002/0004201 A1 (LAPIDUS et al) 10 January 2002	1, 6, 10, 15, 16,
	See whole document	23-24, 26, 30-31
Y		1, 6, 7, 10, 12-14, 15 16, 21, 22, 26-29





International application No. PCT/AU2003/001497

This Ar....x lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
US	2002004201	AU	14307/97	AU	18019/99	AU	39189/00
		CA	2211702	CA	2313014	CA	2331254
		CA	2369045	EP	0815263	EP	1034307
		EP	1086247	EP	1185693	US	5670325
		US	5928870	US	6020137	US	6100029
		US	6143529	US	6146828	US	6203993
		US	6214558	US	6300077	US	2002119469
		wo	0058514	wo	9723651	wo	9928507
		wo	9966077				
wo	02088388						
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